

- 22 -

ADHESIVE COMPOSITIONS AND METHODS OF USING  
AND MAKING THE SAME

***ABSTRACT OF THE DISCLOSURE***

5           Adhesive compositions produced from abundant and renewable resources such  
as lignocellulosic materials, particularly decayed lignocellulosic materials or  
demethylated lignin. Other components present in particular examples of the adhesive  
compositions include relatively inexpensive materials, such as borates and/or  
polyethyleneimine. Also disclosed are lignocellulosic composites that are made from  
10   the adhesive compositions.